



QUARTERLY LETTER OF INFORMATION OF THE FEDERAL HORTICULTURAL BOARD.
UNITED STATES DEPARTMENT OF AGRICULTURE.

No. 27.

APRIL, 1918.

GENERAL NOTES.

Pink bollworm field work in Texas.—The destruction and clean-up of cotton in and surrounding the districts in Texas invaded by the pink bollworm is now practically completed for the crop of 1917. The following summary of this work is condensed from a report prepared by Mr. F. S. Puckett for Dr. Hunter:

A total of 8,794 acres of cotton land has been cleaned of standing and scattered cotton at an average cost of \$9.94 per acre.

The cotton fields cleaned represent 657 owners or tenants, or an average of 13.38 acres to each owner or tenant. Most of the fields consisted of from one to one-half dozen acres, and only in a few instances did the fields approach or exceed 100 acres.

In addition to the clean-up of these cotton fields within and surrounding the known infested areas, all the gins in this section, some 20 in number, have also been subjected to a thorough cleaning, with a destruction of remaining and scattered seeds.

An effort has also been made, which has been substantially successful, to collect and mill under supervision all cotton seed grown in this section, and the lint cotton has been shipped to foreign countries via Galveston. These several steps have eliminated so far as is now possible the chance of overwintering and reinfestation of the new crop by the pink bollworm hibernating in the cotton fields or in cotton seed or in lint cotton of the crop of 1917.

Under the recently enacted Texas law, proclamations have been issued by the governor of Texas quarantining the known infested districts in Texas, namely, the Hearne district and the large district surrounding Trinity Bay and including Beaumont. Supplementing this action, these same districts have been established by proclamations of the Governor as cotton-free areas. Within these areas the growing of cotton is designated a public menace and is prohibited "for a term of three years or so long as such condition of menace to the cotton industry shall be deemed to exist." A border cotton-free zone has also been established by proclamation of the Governor to include the counties of Kinney, Maverick, and Valverde, as a result of the determination of infestation of cotton lands in Mexico within 25 miles of the Texas-Mexican border, opposite Eagle Pass and Del Rio. In these counties the growth of cotton is similarly prohibited for a period of three years.

Miscellaneous notes.—The agricultural appropriation bill now in conference carries an item of \$500,000 for the pink bollworm work in Texas and Mexico, including the border inspection service. This is in addition to the regular appropriation of \$75,000 for the routine work of the Federal Horticultural Board.

Foreign and domestic quarantines were promulgated March 15, 1918, effective April 1, 1918, prohibiting the further entry into the United States from all foreign countries of banana plants, and extending the same prohibitions to Hawaii and Porto Rico. These quarantines have reference particularly to the banana root borer (*Cosmopolites sordidus* Germar), which has already been found in two limited localities in Florida. Work now under way, under the direction of, and in cooperation with, Mr. Newell, will probably lead to its extermination at these points.

A possible new subject of quarantine is the corn-stalk borer recently introduced into New England from Europe, apparently in connection with importations of hemp brought to the mouth of the Mystic River, inasmuch as the infestation seems to be confined to towns near the mouth of this river. This insect, from the extent of territory already covered and its wide range of food plants, may possibly have gotten beyond quarantine action. It is being investigated by Massachusetts entomologists in cooperation with the Bureau of Entomology of this Department.

A notice of public hearing on proposed restrictions or prohibitions with respect to the importation of plants and seeds from foreign countries was issued March 28, 1918. This hearing is called for May 28 and has in view particularly the question of prohibiting or restricting the further entry of plants imported with earth about the roots and plants from little-known and little-explored countries of the world, and as to which there is almost a complete dearth of information concerning insect pests and plant diseases.

C. L. MARLATT, *Chairman of Board.*

NOTES ON ENTOMOLOGICAL INTERCEPTIONS.

The pink bollworm (*Pectinophora gossypiella*) is recorded in this letter in cottonseed from Natal do Norte, Brazil. The shipment in question, consisting of 1,992 bags, was sent in in violation of the cotton regulations and as a result was returned to the port of origin. According to information recently received through the Department of State, the entire shipment, upon its return to the port of origin, was immediately destroyed by the Brazilian Government on account of the infestation referred to.

Two nests of the brown-tail moth were taken on apple stock from France, and a soft scale, *Lecanium pulchrum*, was collected on gooseberry from the same country. So far as known, this scale insect does not occur in the States. In Europe it is reported to infest shade, forest, and nut trees and shrubs. The Hârt scale (*Targionia hartii*), which is frequently a pest in the West Indies, was brought in on tubers of *Colocasia esculenta*. Guatemalan avocado seeds have again been received infested with larvæ of an undescribed *Conotrachelus*, and also larvæ of a species of *Stenoma*. These insects were briefly referred to in Letter of Information No. 24, issued May 15, 1917.

The lesser bulb fly (*Eumerus strigatus*), together with the narcissus fly (*Merodon equestris*), was collected in considerable numbers in narcissus bulbs, from Holland, at Washington, D. C. The lesser bulb fly was also sent in for identification by one of the large seed firms of Philadelphia, taken in Holland-grown narcissus bulbs. It is now known to be established in the States of California, Washington, Colorado, and Maine. Although the economic status of the lesser bulb fly is in dispute, Verrall in *British Flies*, volume VIII (1901), says "The European *E. strigatus* has been bred from bulbs of the common onion (*Allium cepa*), of which they sometimes destroy a whole crop."

E. R. SASSCER, *Chief Inspector.*

NOTES ON PATHOLOGICAL INTERCEPTIONS.

This quarter's report is perhaps most noticeable for the variety of pathogenic organism represented in the list. In the 76 pathological collections reported, 41 species of fungi and bacteria are represented. This large number indicated how varied are the attacks made by the foreign pests on American agriculture.

Crown gall caused by *Bacterium tumefaciens* is the organism most frequently reported by the State inspectors. This is probably not only because of its abundance, but because it is the most easily recognized disease.

Citrus canker was caught four times by the Federal inspectors at New York, on grapefruits and oranges from China, and once by the Federal inspector at Seattle, on oranges from the same country.

The findings in the District of Columbia of the wheat rust, *Puccinia graminis*, on grass used in packing nursery stock from France, calls attention to the ever-present danger of diseases being imported not only on nursery stock itself, but on plant material used for packing in the nursery and other industries.

R. KENT BEATTIE,
Chief Pathological Inspector.

**LIST, BY COUNTRIES, OF PESTS COLLECTED AND REPORTED FROM DEC. 31, 1917, TO MAR. 31, 1918.
INCLUSIVE.**

(The number in parentheses following name of host indicates the number of times reported if collected more than once.)

Country of origin and name of pest.	Host.
ARGENTINA.	
Insect: Diaspis sp. (scale insect).....	Echinopsis sylvestri.
AUSTRALIA.	
Diseases: Bacterium phaseoli.....	Phaseolus sp.
Cryptosporella sp.....	Eleocarpus reticulatus.
BRAZIL.	
Insects: Alphitobius piceus (Tenebrionidae).....	Cotton seed.
Bruchus sp. (weevil).....	Strylinodendron stenocarpa.
Carpophilus dimidiatus (Nitidulidae).....	Cotton seed.
Catarama sp. (Ptinidae).....	Do.
Laemophloeus minutus (Curculionidae).....	Do.
Lophocateres pusillus (Siamese grain beetle).....	Do.
Pectinophora gossypiella (pink bollworm).....	Do.
Rhynchophorus sp. (talandridae).....	Jaboticaba seed.
Tenebroides sp. (Trogositidae).....	Cotton seed.
Tribolium ferrugineum (rust-red flour beetle).....	Do.
CANADA.	
Insects: Lecanium corni (European fruit Lecanium).....	Ribes rubrum.
Lepidosaphes ulmi (oyster-shell scale).....	Do.
Disease: Hormiscium sp.....	Ribes sp.
CELEBES, EAST INDIES.	
Insects: Calandra oryza (rice weevil).....	Corn.
Tribolium ferrugineum (rust-red flour beetle).....	Do.
CHINA.	
Insects: Bruchus chinensis (weevil).....	Beans (2).
Chionaspis citri (scale insect).....	Citrus (2).
Coccus hesperidum (soft brown scale).....	Citrus.
Diaspis pentagona (West Indian peach scale).....	Prunus, ?.
Lepidosaphes beckii (purple scale).....	Citrus.
Parlatoria pergandei (chaff scale).....	Do.
Phenacaspis sp. (scale insect).....	Acer trifidum.
Pseudonidia paeoniae (scale insect).....	Do.
Psocid eggs.....	Eucommia ulmoides.
Scatopse atrata (Bibionidae).....	Lilium sp.
Sciara sp. (Mycetophilidae).....	Do.
Tribolium confusum (confused flour beetle).....	Cotton.

List, by countries, of pests collected and reported from Dec. 31, 1917, to Mar. 31, 1918, inclusive—Continued.

(The number in parentheses following name of host indicates the number of times reported if collected more than once.)

Country of origin and name of pest.	Host.
CHINA—continued.	
Diseases:	
Bacterium tumefaciens (crown gall).....	Pueraria sp.
Coleosporium xanthoxyli.....	Xanthoxylum bungei.
Cytosporina sp.....	Litchi sp.
Dothiorella sp.....	Do.
Phomopsis citri.....	Citrus.
Pseudomonas citri.....	Grape fruit, orange (3), pomelo.
Sphaeropsis sp.....	Litchi sp.
COLOMBIA.	
Insect:	
Caryoborus curvipes (weevil).....	Attalea sp. (seed).
Disease:	
Fusarium sp.....	Hydrangea.
COSTA RICA.	
Insect:	
Apion sp. (Curculionidae).....	Blue vetch.
Disease:	
Torula sp.....	Phoenix sp. (seed).
CUBA.	
Insect:	
Lasioderma serricorne (cigarette beetle).....	Papaya seed.
Diseases:	
Colletotrichum sp.....	Ananas sp., Oreodoxa regia (seed).
Fusarium sp.....	Oreodoxa regia (seed).
CURACAO, DUTCH WEST INDIES.	
Insect:	
Bruchus sp. (weevil).....	Caesalpinia coriaria (seed).
EGYPT.	
Insect:	
Aspidiotus lataniae (scale insect).....	Acocanthera spectabilis.
Disease:	
Cladosporium sp.....	Ilex paraguayensis.
ENGLAND.	
Insects:	
Apatela auricoma (dagger moth).....	Rose.
Diapris pentagona (West Indian peach scale).....	Peach trees.
Emphytus cinctus (sawfly).....	Rose (13).
Lecanium persicae (scale insect).....	Peach trees.
Notolophus antiqua (European tussock moth) (egg mass).....	Rose.
Pseudococcus sp. (mealybug).....	Crataegus.
Slugs (Mollusca).....	Rose.
Diseases:	
Bacterium tumefaciens (crown gall).....	Rose (9).
Botrytis sp.....	Rose.
Nectria cinnabarina.....	Ribes sp.
FRANCE.	
Insects:	
Apatela auricoma (dagger moth).....	Apple seedlings, cherry (2).
Aspidiotus hederæ (ivy scale).....	Beschorneria bracteata.
Aspidiotus ostryæformis (scale insect).....	Apple stock.
Coleophora sp. (Elachistidae).....	Do.
Diprion simile (pine sawfly) (cocoon).....	Rose.
Emphytus cinctus (sawfly).....	Fruit tree stock.
Euproctis chrysorrhoea (brown-tail moth) (nest).....	Apple stock (2).
Harpalus sp. (Carabidae).....	Cherry stock.
Lecanium persicae (scale insect).....	Pear stock.
Lecanium pulchrum (scale insect).....	Gooseberry.

List, by countries, of pests collected and reported from Dec. 31, 1917, to Mar. 31, 1918, inclusive—Continued.

(The number in parentheses following name of host indicates the number of times reported if collected more than once.)

Country of origin and name of pest.	Host.
FRANCE—continued.	
Insects—Continued.	
Lepidosaphes ulmi (oyster-shell scale).....	Apple stock, Gooseberry, Plum stock.
Lycaenid.....	Apple stock.
Notolophus antiqua (European tussock moth) (egg mass)...	Althea sp., Apple stock, Pear seedlings.
Papilio glaucus var turnus (Papilionidae).....	Cherry.
Pieris brassicae (imported cabbage worm).....	Fruit stock, Gooseberry.
Pontia rapae (imported cabbage worm) (pupa).....	Rose.
Sesia tipuliformis (imported currant borer).....	Ribes sp.
Zeuzera pyrina (leopard moth).....	Apple stock.
Diseases:	
Bacterium tumefaciens (crown gall).....	Apple stock, Rose.
Puccinia graminis.....	In packing.
GRENADA, BRITISH WEST INDIES.	
Insect:	
Targionia hartii (Hart scale).....	Colocasia esculenta.
GUATEMALA.	
Insects:	
Aspidiotus ataniae (scale insect).....	Persea americana, Persea sp. (2).
Aspidiotus perniciosus (San Jose scale).....	Persea americana.
Aspidiotus subsimilis (scale insect).....	Persea americana, Persea sp.
Aspidiotus sp. (scale insect).....	Malpighia, Persea americana, Persea sp. (3).
Ceroplastes floridensis (scale insect).....	Persea sp. (2).
Chrysomphalus personatus (masked scale).....	Persea americana.
Chrysomphalus sp. (scale insect).....	Persea sp.
Conotrachelus sp. (Curculionidae).....	Persea sp. (seed).
Cynipid.....	Persea sp.
Diaspis sp. (scale insect).....	Persea americana (2).
Howardia biclavis (mining scale).....	Malpighia, Shrub.
Orthezia sp. (scale insect).....	Nephrolepis.
Pyrilid larvae.....	Persea sp. (seed).
Solenococcus sp. (scale insect).....	Persea sp.
Stenoma sp. (Stenomatidae).....	Persea sp. (seed).
Thrips.....	Do.
Toumeyella sp. (scale insect).....	Persea americana, Persea sp.
Diseases:	
Cephalothecium sp.....	Malpighia, Persea sp. (seed).
Colletotrichum gloeosporioides.....	Persea gratissima, Persea sp.
Colletotrichum sp.....	Persea sp.
Hormiscium sp.....	Coyo seed.
Penicillium.....	Persea sp. (seed).
Rhizopus sp.....	Do.
HAITI.	
Disease:	
Helminthosporium sp.....	Oryza sativa.
HAWAII.	
Insects:	
Diaspis pentagona (West Indian peach scale).....	Litchi (2).
Phycitid larva.....	Sapindus oahuensis.
Diseases:	
Colletotrichum sp.....	Pandanus rockii.
Melanconium sacchari.....	Saccharum sp.
HOLLAND.	
Insects:	
Aulacaspis rosae (rose scale).....	Rose.
Emphytus cinctus (sawfly).....	Do.
Eumerus strigatus (lesser bulb fly).....	Nacrissus bulbs
Gracilaria zachrysa (leaf miner).....	Azalea (4).

List, by countries, of pests collected and reported from Dec. 31, 1917, to Mar. 31, 1918, inclusive—Continued.

(The number in parentheses following name of host indicates the number of times reported if collected more than once.)

Country of origin and name of pest.	Host.
HOLLAND—continued.	
Insects—Continued.	
Lepidosaphes ulmi (oyster-shell scale).....	Apple, boxwood (15), lilac (2).
Leptobyrsa explanata (Tingitidae).....	Rhododendron.
Leptobyrsa rhododendri (Tingitidae) (eggs).....	Rhododendron (2).
Malacosoma dissitia ("forest tent caterpillar") (egg mass) ..	Amygdalus.
Merodon equestris (narcissus fly).....	Narcissus bulbs.
Monarthropalpus buxi (box leaf miner).....	Boxwood.
Notolophus antiqua (European tussock moth) (egg mass).....	Rose.
Psylla buxi (box psylla).....	Boxwood (18).
Diseases:	
Aspergillus sp.....	Hyacinthus orientalis.
Bacterium tumefaciens (crown gall).....	Rhododendron, Rose.
Botrytis cinerea.....	Ornamental (Scotch brown), rose.
Botrytis sp.....	Aucuba japonica, Rose.
Fusicoccum sp.....	Cytisus vossi.
Labiella sp.....	Rhododendron.
Mucor.....	Hyacinthus orientalis.
Penicillium.....	Hyacinthus orientalis (2).
Pestalozzia sp.....	Rhododendron.
Tubercularia cinnabarina.....	Cytisus vossi
Volutella buxi.....	Boxwood.
Zythia striaeformis.....	Cytisus vossi.
INDIA.	
Disease:	
Phyllosticta sp.....	Sorghum.
IRELAND.	
Insect:	
Emphytus cinctus (sawfly).....	Rose.
JAMAICA.	
Insects:	
Ataenius gracilis (Scarabaeidae).....	Smilax officinalis.
Pyralid larva.....	Grapefruit seed.
JAPAN.	
Insects:	
Aspidiotus sp. (scale insect).....	Flowering peach.
Bagworm.....	Japanese persimmon.
Ceroplastes rubens (scale insect).....	Do.
Ceroplastes sp. (scale insect).....	Wistaria.
Chionaspis wistariae (wistaria scale).....	Wistaria (2).
Chionaspis sp. (scale insect).....	Wistaria.
Chrysomphalus sp. (scale insect).....	Aspidistra.
Cicada eggs.....	Persimmon (2).
Diaspis pentagona (West Indian peach scale).....	Prunus.
Euwallacea sp. (Cryphalinae).....	Taro.
Gelechiid.....	Juniperus chinensis.
Hemichionaspis aspidistrae (aspidistra scale).....	Aspidistra (2).
Leucaspis japonica (scale insect).....	Persimmon.
Parlatoria pergandei theae (scale insect).....	Persimmon, prunus mym.
Parlatoria proteus (scale insect).....	Privet sp.
Parlatoria sp. (scale insect).....	Camellia, Osmanthus.
Pseudaonidia duplex (scale insect).....	Azalea (3), camellia (2), persimmon.
Pseudaonidia paeoniae (scale insect).....	Peony.
Pseudococcus sp. (mealybug).....	Bamboo, persimmon.
Pulvinaria sp. (scale insect).....	Persimmon.
Diseases:	
Cladosporium citri.....	Citrus limonia, Citrus sinensis.
Cladosporium sp.....	Prunus.
Diplodia sp.....	Colocasia kinukatsugi.

List, by countries, of pests collected and reported from Dec. 31, 1917, to Mar. 31, 1918, inclusive—Continued.

(The number in parentheses following name of host indicates the number of times reported if collected more than once.)

Country of origin and name of pest.	Host.
JAVA.	
Insects:	
<i>Araecerus fasciculatus</i> (coffee-bean weevil).....	<i>Crotalaria usaramensis</i> .
<i>Calandra oryza</i> (rice weevil).....	Corn.
<i>Sitotroga cerealella</i> (Angoumois grain moth).....	Do.
<i>Tribolium ferrugineum</i> (rust-red flour beetle).....	Do.
MAURITIUS.	
Diseases:	
<i>Colletotrichum falcatum</i>	<i>Saccharum</i> sp.
<i>Melanconium sacchari</i>	Do.
MEXICO.	
Insects:	
Pentatomid.....	"Guate" seed.
<i>Pseudaonidia tesserata</i> (scale insect).....	<i>Rixophora mangle tanantr</i> .
Diseases:	
<i>Colletotrichum gloeosporioides</i>	<i>Vanilla pompona</i> .
<i>Macrophoma</i> sp.....	<i>Vigna sesquipedalis</i> .
<i>Phyllosticta</i> sp.....	Do.
<i>Rhizopus</i> sp.....	<i>Sechium edule</i> .
NEW ZEALAND.	
Insect:	
Curculionid, subfamily Eirrhiniini.....	<i>Dracophyllum latifolium</i> .
PANAMA.	
Insects:	
<i>Phelomerus ochropygus</i> (Bruchidae).....	<i>Canafestula</i> .
<i>Sitodrepa panicea</i> (Ptinidae) (larva).....	<i>Zarzaparilla</i> .
PERU.	
Insects:	
<i>Calandra oryza</i> (rice weevil).....	Corn.
<i>Trigonogenius globulum</i> (Ptinidae).....	Do.
PHILIPPINE ISLANDS.	
Diseases:	
<i>Cytospora</i> sp.....	<i>Rosa montana</i> .
<i>Dothiorella</i> sp.....	Mabolo cuttings.
<i>Syncephalis</i> sp.....	Aleurites nuts.
PORTO RICO.	
Insects:	
<i>Coccus</i> sp. (scale insect).....	<i>Agave sisalana</i> .
<i>Ripersia</i> sp. (scale insect).....	Do.
Diseases:	
<i>Colletotrichum</i> sp.....	<i>Agave sisalana</i> . <i>Permentiera cereifera</i> .
<i>Fusarium</i> sp.....	<i>Pachyrhizus angulatus</i> .
SCOTLAND.	
Insect:	
<i>Chionaspis salicis</i> (willow scale of Europe).....	On support in packing box.
SPAIN.	
Disease:	
<i>Pestalozzia neglecta</i>	<i>Ceratonia Siliqua</i> .
SUMATRA.	
Insect:	
<i>Calandra oryza</i> (rice weevil).....	Corn.
TAHITI-NOUI, SOCIETY ISLANDS.	
Diseases:	
<i>Aspergillus</i> sp.....	<i>Barringtonia speciosa</i> (seed).
<i>Penicillium</i>	Do.

List, by countries, of pests collected and reported from Dec. 31, 1917, to Mar. 31, 1918, inclusive—Continued.

(The number in parentheses following name of host indicates the number of times reported if collected more than once.)

Country of origin and name of pest.	Host.
URUGUAY.	
Disease:	
Ustilago nuda.....	Hordeum vulgare.
VENEZUELA.	
Insects:	
Calandra oryza (rice weevil).....	Corn.
Echocerus maxillosus (Tenebrionidae).....	Do.
Spermophagus sp. (Bruchidae).....	Acacia sp., Cercidium viride.
Tribolium confusum (confused flour beetle).....	Corn.

**LIST, BY STATES, OF PESTS COLLECTED AND REPORTED FROM DEC. 31, 1917, TO MAR. 31, 1918,
INCLUSIVE.**

(The number in parentheses following name of country indicates the number of times reported if collected more than once.)

State in which collected and name of pest.	Host.	Country of origin.	Collector.
CALIFORNIA.			
Insects:			
Aspidiotus sp. (scale insect).....	Flowering peach.....	Japan.....	G. R. Wilson.
Bagworm.....	Japanese persimmon.....	do.....	Do.
Ceroplastes rubens (scale insect)....	do.....	do.....	D. P. T. Macdonald.
Ceroplastes sp. (scale insect).....	Wistaria.....	do.....	Do.
Chionaspis wistariae (wistaria scale).	do.....	Japan (2).....	Do.
Chionaspis sp. (scale insect).....	do.....	Japan.....	Do.
Chrysomphalus sp. (scale insect)....	Aspidistra.....	do.....	G. R. Wilson.
Cicada eggs.....	Persimmon.....	do.....	F. Ferguson.
Do.....	do.....	do.....	D. P. T. Macdonald.
Euwallacea sp. (Cryphalinae).....	Taro.....	do.....	L. A. Whitney.
Hemichionaspis aspidistrae (aspidistra scale).	Aspidistra.....	Japan (2).....	D. P. T. Macdonald.
Parlatoria proteus (scale insect)....	Privet sp.....	Japan.....	Do.
Parlatoria sp. (scale insect).....	Camellia.....	do.....	Do.
Do.....	Osmonthus.....	do.....	G. R. Wilson.
Pseudaonidia duplex (scale insect)...	Azalea.....	do.....	D. P. T. Macdonald.
Do.....	do.....	Japan (2).....	G. R. Wilson.
Do.....	Camellia.....	Japan.....	Do.
Pseudaonidia paeoniae (scale insect).	Peony.....	do.....	Do.
Pseudococcus sp. (mealybug).....	Bamboo.....	do.....	Do.
Do.....	Persimmon.....	do.....	Do.
Disease:			
Cladosporium citri.....	Citrus limonia.....	do.....	Frederick Maskew.
Do.....	Citrus sinensis.....	do.....	Do.
CONNECTICUT.			
Insects:			
Chionaspis salicis (willow scale of Europe).	On support in packing box..	Scotland.....	Q. S. Lowry.
Diprion simile (pine sawfly) (cocoon).	Rose.....	France.....	Do.
Emphytus cinctus (sawfly).....	Fruit tree stock.....	do.....	M. P. Zappe.
Do.....	Rose.....	England.....	Do.
Do.....	do.....	Holland.....	B. H. Waldon.
Lepidosaphes ulmi (oyster-shell scale).	Boxwood.....	do.....	M. P. Zappe.
Monarthropalpus buxi (box leaf miner).	do.....	do.....	W. E. Britton.
Pontia rapae (imported cabbage worm) (pupa).	Rose.....	France.....	Q. S. Lowry.
Disease:			
Bacterium tumefaciens (crown gall).	Rose.....	France.....	Q. S. Lowry.
DISTRICT OF COLUMBIA.			
Insects:			
Alphitobius piceus (Tenebrionidae).	Cotton seed.....	Brazil.....	H. L. Sanford.
Apion sp. (Curculionidae).....	Blue vetch.....	Costa Rica.....	Do.
Araacerus fasciculatus (coffee-bean weevil).	Crotalaria usaramensis.....	Java.....	Do.

List, by States, of pests collected and reported from Dec. 31, 1917, to Mar. 31, 1918, inclusive—Continued.

(The number in parentheses following name of country indicates the number of times reported if collected more than once.)

State in which collected and name of pest.	Host.	Country of origin.	Collector.
DISTRICT OF COLUMBIA—continued.			
Insects—Continued.			
Aspidiotus hederæ (ivy scale).....	Beschorneria bracteata.....	France.....	E. R. Sasscer.
Aspidiotus lataniae (scale insect).. Do.....	Acocanthera spectabilis..... Persea americana.....	Egypt..... Guatemala.....	H. F. Dietz. H. L. Sanford
Do.....	Persea sp.....	Guatemala (2).....	Do.
Aspidiotus ostreaeformis (scale insect). Do.....	Apple stock.....	France.....	H. F. Dietz.
Aspidiotus perniciosus (San Jose scale). Aspidiotus subsimilis (scale insect). Do.....	Persea americana.....do.....	Guatemala.....do.....	H. L. Sanford. J. R. Horton.
Do.....	Persea sp.....	do.....	H. L. Sanford.
Aspidiotus sp. (scale insect)..... Do.....	Malpighia..... Persea americana.....	do..... do.....	H. F. Dietz. J. R. Horton.
Do.....	Persea sp.....	do.....	H. L. Sanford.
Do.....	do.....	Guatemala (2).....	D. G. Tower.
Ataenius gracilis (Scarabaeidae).....	Smilax officinalis.....	Jamaica.....	H. L. Sanford.
Bruchus chinensis (weevil).....	Beans.....	China (2).....	Do.
Bruchus sp. (weevil)..... Do.....	Caesalpinia coriaria (seed).. Strylinodendron stenocarpa.....	Curacao, D. W. I.. Brazil.....	J. R. Horton. H. L. Sanford.
Calandra oryza (rice weevil)..... Do.....	Corn.....do.....	Celebes, E. I..... Java.....	Do. Do.
Do.....do.....	Peru.....	Do.
Do.....do.....	Sumatra.....	Do.
Do.....do.....	Venezuela.....	Do.
Carpophilus dimidiatus (Nitidulidae). Caryoborus curvipes (weevil).....	Cotton seed..... Attalea sp. (seed).....	Brazil..... Colombia.....	Do. Do.
Catorama sp. (Ptinidae).....	Cotton seed.....	Brazil.....	Do.
Ceroplastes floridensis (scale insect). Do.....	Persea sp.....do.....	Guatemala..... do.....	Do. D. G. Tower.
Chionaspis citri (scale insect).....	Citrus.....	China (2).....	H. L. Sanford.
Chrysomphalus personatus (masked scale). Chrysomphalus sp. (scale insect).. Coccus hesperidum (soft brown scale). Coccus sp. (scale insect).....	Persea americana..... Persea sp..... Citrus.....	Guatemala..... do..... China.....	J. R. Horton. D. G. Tower. E. R. Sasscer.
Coleophora sp. (Elachistidae).....	Agave sisalana.....	Porto Rico.....	H. L. Sanford.
Conotrachelus sp. (Curculionidae).. Curculionid, subfamily Erihriniini. Cynipid.....	Apple stock..... Persea sp. (seed)..... Dracophyllum latifolium.....	France..... Guatemala..... New Zealand.....	H. F. Dietz. E. R. Sasscer. H. F. Dietz.
Diaspis pentagona (West Indian peach scale). Do.....	Persea sp..... Litchi.....	Guatemala..... Hawaii.....	H. L. Sanford. Do.
Do.....	do.....	do.....	E. R. Sasscer.
Do.....	Prunus.....	China.....	H. L. Sanford.
Do.....	do.....	do.....	H. F. Dietz.
Diaspis sp. (scale insect)..... Do.....	Echinopsis sylvestri..... Persea americana.....	Argentina..... Guatemala.....	D. G. Tower. J. R. Horton.
Do.....	do.....	do.....	H. L. Sanford.
Echocerus maxillosus (Tenebrionidae). Eumerus strigatus (lesser bulb fly). Euproctis chrysorrhoea (brown-tail moth) (nest). Gelechiid.....	Corn..... Narcissus bulbs..... Apple stock.....	Venezuela..... Holland..... France.....	H. L. Sanford. Do. H. F. Dietz.
Harpalus sp. (Carabidae).....	Juniperus chinensis.....	Japan.....	Do.
Howardia biclavus (mining scale).. Do.....	Cherry stock..... Malpighia.....	France..... Guatemala.....	H. L. Sanford. H. F. Dietz.
Laemophloeus minutus (Cucujidae) Lasioderma serricorne (cigarette beetle).	Shrub..... Cotton seed..... Papaya seed.....	do..... Brazil..... Cuba.....	D. G. Tower. H. L. Sanford. J. R. Horton.

List, by States, of pests collected and reported from Dec. 31, 1917, to Mar. 31, 1918, inclusive—Continued.

(The number in parentheses following name of country indicates the number of times reported if collected more than once.)

State in which collected and name of pest.	Host.	Country of origin.	Collector.
DISTRICT OF COLUMBIA—continued.			
Insects—Continued.			
Lecanium corni (European fruit Lecanium).	Ribes rubrum.....	Canada.....	H. L. Sanford.
Lecanium persicae (scale insect)...	Pear stock.....	France.....	Do.
Lecanium pulchrum (scale insect)...	Gooseberry.....	do.....	Do.
Lepidosaphes beckii (purple scale)...	Citrus.....	China.....	Do.
Lepidosaphes ulmi (oyster-shell scale).	Apple stock.....	France.....	Do.
Do.....	Gooseberry.....	do.....	H. F. Dietz.
Do.....	Plum stock.....	do.....	H. L. Sanford.
Do.....	Ribes rubrum.....	Canada.....	Do.
Leucaspis japonica (scale insect)...	Persimmon.....	Japan.....	Do.
Lophocateres pusillus (Siamese grain beetle).	Cotton seed.....	Brazil.....	Do.
Lycaenid.....	Apple stock.....	France.....	Do.
Merodon equestris (narcissus fly)...	Narcissus bulbs.....	Holland.....	H. F. Dietz.
Orthezia sp. (scale insect).....	Nephrolepis.....	Guatemala.....	H. L. Sanford.
Parlatoria pergandei (chaff scale)...	Citrus.....	China.....	E. R. Sasser.
Parlatoria pergandei theae (scale insect).	Persimmon.....	Japan.....	H. L. Sanford.
Do.....	Prunus myme.....	do.....	Do.
Pectinophora gossypiella (pink bollworm).	Cotton seed.....	Brazil.....	Do.
Pentatomid.....	"Guate" seed.....	Mexico.....	H. F. Dietz.
Phelomerus ochropygus (Bruchi- dae).	Canafestula.....	Panama.....	E. R. Sasser.
Phenacaspis sp. (scale insect).....	Acer trifidum.....	China.....	H. L. Sanford.
Phycitid larva.....	Sapindus oahuensis.....	Hawaii.....	J. R. Horton.
Pieris brassicae (imported cabbage worm).	Gooseberry.....	France.....	H. L. Sanford.
Pseudaonidia duplex (scale insect).	Persimmon.....	Japan.....	Do.
Pseudaonidia paeoniae (scale insect).	Acer trifidum.....	China.....	Do.
Pseudaonidia tesserata (scale insect).	Rixophora mangle tenante..	Mexico.....	Do.
Psocid eggs.....	Eucommia ulmoides.....	China.....	E. R. Sasser.
Pulvinaria sp. (scale insect).....	Persimmon.....	Japan.....	H. L. Sanford.
Pyralid larva.....	Grapefruit seed.....	Jamaica.....	Do.
Do.....	Persea sp. (seed).....	Guatemala.....	E. R. Sasser.
Rhynchophorus sp. (Calandridae)...	Jaboticaba seed.....	Brazil.....	H. L. Sanford.
Ripersia sp. (scale insect).....	Agave sisilana.....	Porto Rico.....	Do.
Scatopse atrata (Bibionidae).....	Lilium sp.....	China.....	Do.
Sciara sp. (Mycetophilidae).....	do.....	do.....	Do.
Sesia tipuliformis (imported currant borer)	Ribes sp.....	France.....	Do.
Sitodrepa panicea (Ptinidae) (larva).	Zarzaparilla.....	Panama.....	H. F. Dietz.
Sitotroga cerealella (Angoumois grain moth).	Corn.....	Java.....	H. L. Sanford.
Solenococcus sp. (scale insect)...	Persea sp.....	Guatemala.....	H. F. Dietz.
Spermophagus sp. (Bruchidae)...	Acacia sp.....	Venezuela.....	H. L. Sanford.
Spermophagus sp. (Bruchidae)...	Cercidium viride.....	Venezuela.....	H. L. Sanford.
Stenoma sp. (Stenomatidae).....	Persea sp. (seed).....	Guatemala.....	E. R. Sasser.
Tenebroides sp. (Trogositidae)...	Cotton seed.....	Brazil.....	H. L. Sanford.
Thrips.....	Persea sp. (seed).....	Guatemala.....	Do.
Toumeyella sp. (scale insect).....	Persea americana.....	do.....	Do.
Do.....	Persea sp.....	do.....	D. G. Tower.
Tribolium confusum (confused flour beetle).	Corn.....	Venezuela.....	H. L. Sanford.
Do.....	Cotton.....	China.....	H. F. Dietz.
Tribolium ferrugineum (rust-red flour beetle).	Corn.....	Celebes, E. I.....	H. L. Sanford.
Do.....	do.....	Java.....	Do.
Do.....	Cotton seed.....	Brazil.....	Do.
Trigonogenius globulum (Ptinidae)	Corn.....	Peru.....	Do.

List, by States, of pests collected and reported from Dec. 31, 1917, to Mar. 31, 1918, inclusive—Continued.

(The number in parentheses following name of country indicates the number of times reported if collected more than once.)

State in which collected and name of pest.	Host.	Country of origin.	Collector.
DISTRICT OF COLUMBIA—continued.			
Diseases:			
Aspergillus sp.....	Barringtonia speciosa (seed).	Tahiti-Noui, Society Islands.	C. H. Kauffman.
Do.....	Hyacinthus orientalis.....	Holland.....	J. T. Rogers.
Bacterium phaseoli.....	Phaseolus sp.....	Australia.....	A. H. Gilbert.
Botrytis sp.....	Aucuba japonica.....	Holland.....	J. T. Rogers.
Do.....	Rose.....	do.....	Do.
Cephalothecium sp.....	Malpighia.....	Guatemala.....	R. Kent Beattie.
Do.....	Persea sp. (seed).....	do.....	C. H. Kauffman.
Cladosporium sp.....	Ilex paraguayensis.....	Egypt.....	R. Kent Beattie.
Do.....	Prunus.....	Japan.....	C. H. Kauffman.
Coleosporium xanthoxyli.....	Xanthoxylum bungei.....	China.....	Do.
Colletotrichum falcatum.....	Saccharum sp.....	Mauritius.....	J. T. Rogers.
Colletotrichum gloeosporioides.....	Persea gratissima.....	Guatemala.....	A. H. Gilbert.
Do.....	Persea sp.....	do.....	J. T. Rogers.
Do.....	Vanilla pompona.....	Mexico.....	A. H. Gilbert.
Colletotrichum sp.....	Agave sisalana.....	Porto Rico.....	Do.
Do.....	Ananas sp.....	Cuba.....	J. T. Rogers.
Do.....	Oreodoxa regia (seed).....	do.....	G. R. Lyman.
Do.....	Pandanus rockii.....	Hawaii.....	J. T. Rogers.
Do.....	Parmentiera cereifera.....	Porto Rico.....	W. H. Weston.
Do.....	Persea sp.....	Guatemala.....	J. T. Rogers.
Cryptosporella sp.....	Eleocarpus reticulatus.....	Australia.....	Do.
Cytosporella sp.....	Rosa montana.....	Philippine Islands.	Do.
Cytosporina sp.....	Litchi sp.....	China.....	C. H. Kauffman.
Diplodia sp.....	Colocasia kinukatsugi.....	Japan.....	A. H. Gilbert.
Dothiorella sp.....	Litchi sp.....	China.....	Do.
Do.....	Mabolo cuttings.....	Philippine Islands.....	R. Kent Beattie.
Fusarium sp.....	Hydrangea.....	Colombia.....	C. H. Kauffman.
Do.....	Oreodoxa regia (seed).....	Cuba.....	G. R. Lyman.
Do.....	Pachyrhizus angulatus.....	Porto Rico.....	J. T. Rogers.
Fusicoccum sp.....	Cytisus vossi.....	Holland.....	Do.
Helminthosporium sp.....	Oryza sativa.....	Haiti.....	Do.
Hormiscium sp.....	Coyo seed.....	Guatemala.....	C. H. Kauffman.
Do.....	Ribes sp.....	Canada.....	A. H. Gilbert.
Labiella sp.....	Rhododendron.....	Holland.....	N. W. Lacey.
Macrophoma sp.....	Vigna sesquipedalis.....	Mexico.....	C. C. Thomas.
Melanconium sacchari.....	Saccharum sp.....	Hawaii.....	J. T. Rogers.
Do.....	do.....	Mauritius.....	Do.
Mucor.....	Hyacinthus orientalis.....	Holland.....	C. H. Kauffman.
Nectria cinnabarina.....	Ribes sp.....	England.....	G. R. Lyman.
Penicillium.....	Barringtonia speciosa (seed).	Tahiti-Noui, Society Islands.	C. H. Kauffman.
Do.....	Hyacinthus orientalis.....	Holland.....	Do.
Do.....	do.....	do.....	J. T. Rogers.
Do.....	Persea sp. (seed).....	Guatemala.....	C. H. Kauffman.
Pestalozzia neglecta.....	Ceratonia Siliqua.....	Spain.....	Do.
Pestalozzia sp.....	Rhododendron.....	Holland.....	J. T. Rogers.
Phomopsis citri.....	Citrus.....	China.....	Do.
Phyllosticta sp.....	Sorghum.....	India.....	W. H. Weston.
Do.....	Vigna sesquipedalis.....	Mexico.....	C. C. Thomas.
Puccinia graminis.....	In packing.....	France.....	C. H. Kauffman.
Rhizopus sp.....	Persea sp. (seed).....	Guatemala.....	Do.
Do.....	Sechium edule.....	Mexico.....	C. C. Thomas.
Sphaeropsis sp.....	Litchi sp.....	China.....	C. H. Kauffman.
Syncephalis sp.....	Aleurites nuts.....	Philippine Islands.....	A. H. Gilbert.
Torula sp.....	Phoenix sp. (seed).....	Costa Rica.....	J. T. Rogers.
Tubercularia cinnabarina.....	Cytisus vossi.....	Holland.....	Do.
Ustilago nuda.....	Hordeum vulgare.....	Uruguay.....	Do.
Zythia striaeformis.....	Cytisus vossi.....	Holland.....	N. W. Lacey.

List, by States, of pests collected and reported from Dec. 31, 1917, to Mar. 31, 1918, inclusive—Continued.

(The number in parentheses following name of host indicates the number of times reported if collected more than once.)

State in which collected and name of pest.	Host.	Country of origin.	Collector.
GEORGIA.			
Insect: Lepidosaphes ulmi (oyster-shell scale).	Boxwood.....	Holland.....	W. V. Reed.
ILLINOIS.			
Insect: Emphytus cinctus (sawfly).....	Rose.....	England.....	P. A. Glenn.
Do.....	do.....	England (5).....	D. E. Gower.
Disease: Bacterium tumefaciens (crown gall).	do.....	England (2).....	Do.
INDIANA.			
Insect: Emphytus cinctus (sawfly).....	Rose.....	England (4).....	J. B. Demaree.
Do.....	do.....	England (2).....	R. W. Kelley.
Do.....	do.....	Ireland.....	Do.
Disease: Bacterium tumefaciens (crown gall).	do.....	England.....	J. B. Demaree.
Do.....	do.....	do.....	R. W. Kelley.
IOWA.			
Insects: Apatela auricoma (dagger moth) (pupa).	Cherry.....	France.....	H. Ness.
Notolophus antiqua (European tussock moth) (egg mass).	Apple stock.....	do.....	Do.
Disease: Bacterium tumefaciens (crown gall).	Rose.....	England (3).....	Do.
KENTUCKY.			
Insects: Lepidosaphes ulmi (oyster-shell scale).	Boxwood.....	Holland (2).....	H. R. Niswonger
Notolophus antiqua (European tussock moth) (egg mass).	Althea sp.....	France.....	Do.
MASSACHUSETTS.			
Insects: Diaspis pentagona (West Indian peach scale).	Peach trees.....	England.....	L. H. Taylor.
Lecanium persicae (scale insect).....	do.....	do.....	Do.
Lepidosaphes ulmi (oyster-shell scale).	Boxwood.....	Holland.....	R. H. Allen.
Notolophus antiqua (European tussock moth) (egg mass).	Rose.....	England.....	L. H. Taylor.
Do.....	do.....	Holland.....	R. H. Allen.
Disease: Bacterium tumefaciens (crown gall).	Rhododendron.....	do.....	Do.
NEW JERSEY.			
Insects: Gracilaria zachrysa (leaf miner)...	Azalea.....	Holland (4).....	A. S. Nicolay.
Lepidosaphes ulmi (oyster-shell scale).	Boxwood.....	Holland.....	G. L. Walters.
Leptobyrsa explanata (Tingitidae).	Rhododendron.....	do.....	A. S. Nicolay.
Leptobyrsa rhododendri (Tingitidae) (eggs).	do.....	do.....	C. A. Schwarze.
Do.....	do.....	do.....	H. B. Weiss.
Psylla buxi (box psylla).....	Boxwood.....	Holland (12).....	A. S. Nicolay.
Do.....	do.....	Holland.....	H. B. Weiss.
Diseases: Botrytis cinerea.....	Ornamental (Scotch Brown).....	do.....	C. A. Schwarze.
Do.....	Rose.....	do.....	Do.
Volutella buxi.....	Boxwood.....	do.....	Do.

List, by States, of pests collected and reported from Dec. 31, 1917, to Mar. 31, 1918, inclusive—Continued.

(The number in parentheses following name of country indicates the number of times reported if collected more than once.)

State in which collected and name of pest.	Host.	Country of origin.	Collected.
NEW YORK CITY (FEDERAL INSPECTION).			
Insect:			
Targionia hartii (Hart scale).....	Colocasia esculenta.....	Grenada, B. W. I.	D. G. Tower.
Hart Diseases:			
Bacterium tumefaciens (crown gall).	Pueraria sp.....	China.....	H. B. Shaw.
Pseudomonas citri.....	Grapefruit.....	do.....	Do.
Do.....	Orange.....	China (2).....	Do.
Do.....	Pomelo.....	China.....	Do.
OHIO.			
Insects:			
Apatela auricoma (dagger moth)...	Apple seedlings.....	France.....	F. D. Hechathorn.
Do.....	Cherry.....	do.....	Do.
Do.....	Rose.....	England.....	Do.
Euproctis chrysorrhoea (brown-tail moth) (nest).	Apple stock.....	France.....	W. E. Evans.
Lepidosaphes ulmi (oyster-shell scale).	Apple.....	Holland.....	Do.
Notolophus antiqua (European tussock moth) (eggs).	Pear seedlings.....	France.....	Do.
Papilio glaucus var. turnus (Papilionidae).	Cherry.....	do.....	R. Faxon.
Zeuzera pyrina (leopard moth)....	Apple stock.....	do.....	W. E. Evans.
PENNSYLVANIA.			
Insects:			
Aulacaspis rosae (rose scale).....	Rose.....	Holland.....	G. B. Stichter.
Lepidosaphes ulmi (oyster-shell scale).	Boxwood.....	do.....	W. H. Goodwin.
Do.....	do.....	do.....	F. L. Holdridge.
Do.....	do.....	Holland (4).....	J. K. Primm.
Do.....	do.....	Holland.....	M. E. Shay.
Do.....	do.....	Holland (2).....	F. M. Trimble.
Do.....	Lilac.....	do.....	Do.
Malacosoma disstria ("forest tent caterpillar") (egg mass).	Amygdalus.....	Holland.....	M. E. Shay.
Pieris brassicae (imported cabbage worm).	Fruit stock.....	France.....	J. G. Sanders.
Pseudococcus sp. (mealybug).....	Crataegus.....	England.....	G. L. Walters.
Psylla buxi (box psylla).....	Boxwood.....	Holland (3).....	J. K. Primm.
Do.....	do.....	Holland.....	M. E. Shay.
Do.....	do.....	Holland (2).....	F. M. Trimble.
Diseases:			
Bacterium tumefaciens (crown gall).	Apple stock.....	France.....	Do.
Do.....	Rose.....	England.....	Do.
Do.....	do.....	Holland.....	Do.
Botrytis sp.....	do.....	England.....	Do.
SEATTLE, WASH. (FEDERAL INSPECTION).			
Disease:			
Pseudomonas citri.....	Orange.....	China.....	A. G. Webb.
WASHINGTON (STATE).			
Insects:			
Diaspis pentagona (West Indian peach scale).	Prunus.....	Japan.....	F. N. Rhodes.
Pseudaonidia duplex (scale insect).	Camellia.....	do.....	Do.
WISCONSIN.			
Insect:			
Slugs (Mollusca).....	Rose.....	England.....	S. B. Fracker.
Disease:			
Bacterium tumefaciens (crown gall).	do.....	do.....	Do.

LIST OF CURRENT QUARANTINE AND OTHER RESTRICTIVE ORDERS.

QUARANTINE ORDERS.

The numbers assigned to these quarantines indicate merely the chronological order of issuance of both domestic and foreign quarantines in one numerical series. The quarantine numbers missing in this list are quarantines which have either been superseded or revoked. For convenience of reference these quarantines are here classified as domestic and foreign.

DOMESTIC QUARANTINES.

Date palms.—Quarantine No. 6: Regulates the interstate movement of date palms or date-palm offshoots from Riverside County, Cal., east of the San Bernardino meridian; Imperial County, Cal.; Yuma, Maricopa, and Pinal Counties, Ariz.; and Webb County, Tex., on account of the *Parlatoria* scale (*Parlatoria blanchardi*) and the *Phoenicococcus* scale (*Phoenicococcus marlatti*).

Cotton seed and cottonseed hulls.—Quarantine No. 9: Prohibits the importation of cotton seed and cottonseed hulls from the Territory of Hawaii on account of the pink bollworm.

Hawaiian fruits.—Quarantine No. 13: Prohibits or regulates the importation from Hawaii of all fruits and vegetables, in the natural or raw state, on account of the Mediterranean fruit fly and the melon fly.

Sugar cane.—Quarantine No. 16: Prohibits the importation from Hawaii and Porto Rico of living canes of sugar cane or cuttings or parts thereof, on account of certain injurious insects and fungus diseases.

Cotton.—Quarantine No. 23, revised: Regulates the movement of cotton from Hawaii to the continental United States, on account of the pink bollworm.

Gipsy moth and brown-tail moth.—Quarantine No. 27: Regulates the movement interstate to any point outside of the quarantined towns and territory, or from points in the generally infested area to points in the lightly infested area, of stone or quarry products and of the plants and the plant products listed therein. This quarantine covers portions of the New England States.

Five-leaved pines, Ribes, and Grossularia.—Quarantine No. 26: Prohibits the interstate movement of five-leaved pines, currant and gooseberry plants from all States east of and including the States of Minnesota, Iowa, Missouri, Arkansas, and Louisiana to points outside of this area; prohibits, further, the interstate movement of five-leaved pines and black currant plants to points outside the area comprising the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, and New York.

Sweet potato and yam.—Quarantine No. 30: Prohibits the movement from the Territories of Hawaii and Porto Rico into or through any other Territory, State, or District of the United States of all varieties of sweet potatoes and yams (*Ipomoea batatas* and *Dioscorea* spp.), regardless of the use for which the same are intended, on account of the sweet potato weevil (*Cylas formicarius*) and the sweet potato scarabee (*Euscepes batatae*).

Banana plants.—Quarantine No. 32: Prohibits the movement from the Territories of Hawaii and Porto Rico into or through any other Territory, State, or District of the United States of all species and varieties of banana plants (*Musa* spp.), regardless of the use for which the same are intended, on account of two injurious weevils, namely, *Rhabdocnemis obscurus* and *Metamasius hemipterus*.

FOREIGN QUARANTINES.

Irish potato.—Quarantine No. 3: Prohibits the importation of the common or Irish potato from Newfoundland; the islands of St. Pierre and Miquelon; Great Britain, including England, Scotland, Wales, and Ireland; Germany; and Austria-Hungary on account of the disease known as potato wart.

Mexican fruits.—Quarantine No. 5, as amended: Prohibits the importation of oranges, sweet limes, grapefruit, mangoes, achras sapotes, peaches, guavas, and plums from the Republic of Mexico, on account of the Mexican fruit fly.

Five-leaved pines, Ribes and Grossularia.—Quarantine No. 7, as amended: Prohibits the importation from each and every country of Europe and Asia and from the Dominion of Canada and Newfoundland of all five-leaved pines and all species and varieties of the genera *Ribes* and *Grossularia*, on account of the white-pine blister rust.

Cotton seed and cottonseed hulls.—Quarantine No. 8, as amended: Prohibits the importation from any foreign locality and country, excepting only the locality of the Imperial Valley, in the State of Lower California, Mexico, of cotton seed (including seed cotton) of all species and varieties and cottonseed hulls, on account of the pink bollworm. Cotton and cotton seed from the Imperial Valley may be entered under permit and regulation.

Seeds of avocado or alligator pear.—Quarantine No. 12: Prohibits the importation from Mexico and the countries of Central America of the seeds of the avocado or alligator pear, on account of the avocado weevil.

Sugar cane.—Quarantine No. 15: Prohibits the importation from all foreign countries of living canes of sugar cane or cuttings or parts thereof, on account of certain injurious insects and fungus diseases. There are no restrictions on the entry of such materials into Hawaii and Porto Rico.

Citrus nursery stock.—Quarantine No. 19: Prohibits the importation from all foreign localities and countries of all citrus nursery stock, including buds, scions, and seeds, on account of the citrus canker and other dangerous citrus diseases. The term "citrus" as used in this quarantine includes all plants belonging to the subfamily or tribe *Citratæ*.

European pines.—Quarantine No. 20: Prohibits, on account of the European pine-shoot moth (*Evetria buoliana*), the importation from all European countries and localities of all pines not already excluded by quarantine No. 7.

Indian corn or maize and related plants.—Quarantine No. 24, as amended: Prohibits the importation from south-eastern Asia (including India, Siam, Indo-China, and China), Malayan Archipelago, Australia, New Zealand, Oceania, Philippine Islands, Formosa, Japan, and adjacent islands, in the raw or unmanufactured state, of seed and all other portions of Indian corn or maize (*Zea mays* L.), and the closely related plants, including all species of Teosinte (*Euchlaena*), Job's tears (*Coix*), *Polytoea*, *Chionachne*, and *Sclerachne*, on account of the downy mildews and *Physoderma* diseases of Indian corn, except that Indian corn or maize may be imported on compliance with the conditions prescribed in the regulations of the Secretary of Agriculture.

Citrus fruit.—Quarantine No. 28: Prohibits the importation from eastern and southeastern Asia (including India, Siam, Indo-China, and China), the Malayan Archipelago, the Philippine Islands, Oceania (except Australia, Tasmania, and New Zealand), Japan (including Formosa and other islands adjacent to Japan), and the Union of South Africa, of all species and varieties of citrus fruits, on account of citrus canker, except that oranges of the mandarin class (including satsuma and tangerine varieties) may be imported on compliance with the conditions prescribed in the regulations of the Secretary of Agriculture.

Sweet potato and yam.—Quarantine No. 29: Prohibits the importation for any purpose of any variety of sweet potatoes or yams (*Ipomoea batatas* and *Dioscorea* spp.) from all foreign countries and localities, on account of the sweet potato weevils (*Cylas* spp.) and the sweet potato scarabee (*Euscepes batatae*).

Banana plants.—Quarantine No. 31: Prohibits the importation, for any purpose, of any species or variety of banana plants (*Musa* spp.) from all foreign countries and localities, on account of the banana root borer (*Cosmopolites sordidus*).

OTHER RESTRICTIVE ORDERS.

The regulation of the entry of nursery stock from foreign countries into the United States was specifically provided for in the plant-quarantine act. The act further provides for the similar regulation of any other class of plants or plant products when the need therefor shall be determined. The entry of the plants and plant products listed below have been brought under such regulation:

Nursery stock.—Nursery stock is entered under regulations requiring a permit, foreign certification and marking, reporting arrival and distribution, and inspection at destination. The term "nursery stock" includes all field-grown florists' stock, trees, shrubs, vines, cuttings, grafts, scions, buds, fruit pits, and other seeds of fruit and ornamental trees or shrubs, and other plants and plant products for propagation, except field, vegetable, and flower seeds, bedding plants, and other herbaceous plants, bulbs, and roots.

Irish potatoes.—The importation of Irish potatoes is prohibited altogether from the countries enumerated in the potato quarantine. Potatoes may be admitted from other foreign countries in accordance with the order of December 22, 1913, bringing the entry of potatoes under restriction on account of injurious potato diseases and insect pests. The following countries have qualified for the importation of potatoes under the regulations issued under said order: Denmark, Holland, Belgium, Cuba, Bermuda, and the Dominion of Canada. The regulations issued under this order have been amended so as to permit, free of any restrictions whatsoever under the plant-quarantine act, the importation of potatoes from any foreign country into the Territories of Porto Rico and Hawaii for local use only and from the Dominion of Canada and Bermuda into the United States or any of its Territories or districts.

Avocado, or alligator pear.—The order of February 27, 1914, prohibits the importation from Mexico and the countries of Central America of the fruits of the avocado, or alligator pear, except under permit and in accordance with the other provisions of the regulations issued under said order, on account of the avocado weevil. Entry is permitted only through the port of New York and is limited to the large, thick-skinned variety of the avocado. The importation of the small, purple, thin-skinned variety of the fruit of the avocado and of avocado nursery stock under 18 months of age is prohibited.

Cotton.—The order of April 27, 1915, prohibits the importation of cotton from all foreign countries and localities, except under permit and in accordance with the other provisions of the regulations issued under said order, on account of injurious insects, including the pink bollworm. These regulations apply in part to cotton grown in and imported from the Imperial Valley, in the State of Lower California, in Mexico.

Corn.—The order of March 1, 1917 (Amendment No. 1, with Regulations, to Notice of Quarantine No. 24), prohibits the importation of Indian corn or maize in the raw or unmanufactured state from the countries and localities listed in the Notice of Quarantine No. 24, except under permit and in accordance with the other provisions of the regulations issued under said order, on account of injurious diseases of Indian corn.

Cottonseed products.—The order of June 23, 1917, prohibits the importation of cottonseed cake, meal, and all other cottonseed products, except oil, from all foreign countries, and a second order of June 23, 1917, prohibits the importation of cottonseed oil from Mexico, except under permit and in accordance with the other provisions of the regulations issued under said orders, on account of injurious insects, including the pink bollworm.

Citrus fruits.—The order of June 27, 1917 (Notice of Quarantine No. 28, with Regulations), prohibits the importation from the countries and localities listed therein of all species and varieties of citrus fruits, excepting only oranges of the mandarin class (including satsuma and tangerine varieties), on account of the citrus canker disease. Oranges of the mandarin class (including satsuma and tangerine varieties) may be imported under permit and in accordance with the other provisions of the regulations issued under said order.

STATE INSPECTION OFFICIALS.

Alabama: State Horticulturist, Alabama Polytechnic Institute, Auburn, Ala., G. C. Starcher.
 Arizona: State Entomologist, Phoenix, Ariz., A. W. Morrill.
 Arkansas: Chief Inspector, Fayetteville, Ark., J. L. Hewitt.
 California: Horticultural Quarantine Officer, Room 11, Ferry Building, San Francisco, Cal., Frederick Maskew.
 Colorado: Entomologist, Colorado Agricultural Experiment Station, Fort Collins, Colo., C. P. Gillette.
 Connecticut: State Entomologist, New Haven, Conn., W. E. Britton.
 Delaware: Secretary, State Board of Agriculture, Dover, Del., Wesley Webb.
 District of Columbia: Federal Horticultural Board, U. S. D. A., E. R. Sasser, Chief Inspector; R. Kent Beattie, Chief Pathological Inspector.
 Florida: Inspector of Nursery Stock, Florida Agricultural Experiment Station, Gainesville, Fla., F. M. O'Byrne.
 Georgia: State Entomologist, Atlanta, Ga., A. C. Lewis.
 Hawaii: Entomologist, Board of Commissioners of Agriculture and Forestry, Honolulu, Hawaii, Edw. M. Ehrhorn.
 Idaho: State Horticultural Inspector, Boise, Idaho, Guy Graham.
 Illinois: Chief Inspector, Office State Entomologist, Urbana, Ill., P. A. Glenn.
 Indiana: State Entomologist, Indianapolis, Ind., Frank N. Wallace.
 Iowa: State Entomologist, Iowa State College, Ames, Iowa, R. L. Webster.
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 Kansas, south: Entomologist, University of Kansas, Lawrence, Kans., S. J. Hunter.
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 Maine: State Horticulturist, Augusta, Me., C. L. Wilkins.
 Maryland: State Entomologist, College Park, Md., E. N. Cory.
 Massachusetts: State Nursery Inspector, State House, Boston, Mass., R. H. Allen.
 Michigan: State Inspector of Nurseries, East Lansing, Mich., L. R. Taft.
 Minnesota: State Entomologist, St. Paul, Minn., A. G. Ruggles.
 Mississippi: Entomologist, Agricultural College, Miss., R. W. Harned.
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 New Jersey: State Entomologist, New Brunswick, N. J., T. J. Headlee.
 New Mexico: Horticulturist, New Mexico Agricultural Experiment Station, State College, N. Mex., Fabian Garcia.
 New York: Commissioner of Agriculture, Albany, N. Y., Chas. S. Wilson.
 North Carolina: State Entomologist, State Department of Agriculture, Raleigh, N. C., Franklin Sherman.
 North Dakota: Director, North Dakota Agricultural Experiment Station, Agricultural College, N. Dak., C. B. Waldron.
 Ohio: Chief Inspector, Ohio Department of Agriculture, Columbus, Ohio, E. C. Cotton.
 Oklahoma: Secretary, State Board of Agriculture, Oklahoma City, Okla., C. E. Sanborn.
 Oregon: Secretary, State Board of Horticulture, Portland, Oreg., Henry E. Dosch.
 Pennsylvania: Chief Nursery Inspector, Harrisburg, Pa., Enos B. Engle.
 Porto Rico: Entomologist, Board of Commissioners of Agriculture, Rio Piedras, P. R., W. V. Tower.
 Rhode Island: Assistant Entomologist, State Board of Agriculture, Providence, R. I., J. J. Pillsbury.
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 Tennessee: State Entomologist, Knoxville, Tenn., G. M. Bentley.
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 Utah: State Crop Pest Inspector, Salt Lake City, Utah, J. B. Walker.
 Vermont: State Nursery Inspector, Burlington, Vt., Marshall B. Cummings.
 Virginia: State Entomologist, Blacksburg, Va., W. J. Schoene.
 Washington: Chief, Division of Horticulture, Olympia, Wash., M. L. Dean.
 West Virginia: State Entomologist, Morgantown, W. Va., W. E. Rumsey.
 Wisconsin: State Entomologist, State Capitol, Madison, Wis., E. D. Ball.
 Wyoming: Secretary, State Board of Horticulture, Laramie, Wyo., Aven Nelson.